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UNDER THE PATENT COOPERATION TREATY-CHAPTER II

PRELIMINARY AMENDMENT

APPLICANT: Hans-Jochen Morper DOCKET NO: 112740-196
SERIAL NO: GROUP ART UNIT:
EXAMINER:
INTERNATIONAL APPLICATION NO: PCT/DE99/03119
INTERNATIONAL FILING DATE: 28 September 1999
INVENTION: METHOD FOR TRANSMITTING PACKET-ORIENTED
INFORMATION VIA A TIME-DIVISION-MULTIPLEX-
ORIENTED RADIO LINK

Assistant Commissioner for Patents,
Washington, D.C. 20231

Sir:

Please amend the above-identified International Application before entry into the National stage before the U.S. Patent and Trademark Office under 35 U.S.C. §371 as follows:

In The Specification:

On page 1, cancel lines 1-4 and substitute the following therefor:

--SPECIFICATION

TITLE

**METHOD FOR TRANSMITTING PACKET-ORIENTED INFORMATION
VIA A TIME-DIVISION-MULTIPLEX-ORIENTED RADIO LINK**

BACKGROUND OF THE INVENTION

Field of the Invention

The present invention relates to a method for transmitting packet-oriented information via a time division multiplex oriented radio link wherein, in particular,

the resources of the radio link, or its transmission channels, are used in a more efficient manner.

Description of the Prior Art--.

- On page 1, line 6, cancel the “-“ and substitute therefor a --,--.
- 5 On page 1, line 6, cancel “for” and substitute therefor --such--.
- On page 1, line 7, cancel “example” and substitute therefor --as--.
- On page 1, line 7, cancel the “-“ and substitute therefor a --,--.
- On page 1, line 9, cancel the “-“ and substitute therefor a --;--.
- On page 1, line 9, insert a --,-- after “example”.
- 10 On page 1, line 22, cancel the “-“ and substitute therefor a --,-- (occurs twice).
- On page 1, line 22, cancel “for example” and substitute therefor --such as--.
- On page 1, line 26, cancel the “-“.
- On page 1, line 26, insert --(TDMA)-- after “access”.
- 15 On page 1, line 26, insert a --,-- after “method”.
- On page 1, cancel line 27.
- On page 1, line 28, insert --particularly in-- before “accordance”.
- On page 1, line 28, cancel the “-“ and substitute therefor a --;--.
- On page 2, line 3, cancel the “-“ after “protocol” and substitute therefor a
- 20 --,--.
- On page 2, line 4, cancel the “-“ and substitute therefor a --,--.
- On page 2, line 12, cancel the “-“ and substitute therefor a --,--.
- On page 2, line 13, cancel the “-“ and substitute therefor a --,--.
- On page 2, line 16, cancel “The” and substitute therefor --An--.
- 25 On page 2, line 16, cancel “forming the basis”.
- On page 2, line 16, insert --present-- before “invention”.
- On page 2, line 16, insert --, therefore,-- after “invention”.
- On page 2, lines 18-19, cancel “The object is achieved by the features of claim 1.”.

On page 2, before line 20, insert the following centered heading:

--SUMMARY OF THE INVENTION

On page 2, line 20, cancel "The" and substitute therefor --Accordingly, an-

- 5 On page 2, line 21, insert --present-- before "invention".
On page 2, line 37, cancel "- claim 2".
On page 3, line 2, insert --present-- before "invention".
On page 3, line 7, cancel "This means" and substitute therefor --Thus,--.
On page 3, line 8, insert --occurs-- after "resources".
- 10 On page 3, lines 18-19, cancel "- claim 3 -" and substitute therefor a --,--.
On page 3, line 22, cancel "is" and substitute therefor --being--.
On page 3, lines 24-25, cancel "- claim 4.".
On page 3, line 25, cancel "This means that" and substitute therefor --As
such,--.
- 15 On page 3, line 37, cancel "or" after "token-oriented" and substitute
therefor --method,--.
On page 3, line 37, insert a --,-- after "method".
On page 3, line 37, cancel "or by".
On page 3, line 38, cancel "collision-" and substitute therefor --collision-
- 20 controlled method--.
On page 3, line 38, insert --a-- after "or".
On page 3, line 38, cancel "- claim 5".
On page 3a, line 2, insert a --,-- after "channels".
On page 4, line 3, cancel "by" and substitute therefor --in a--.
- 25 On page 4, line 3, cancel "means" and substitute therefor --manner--.
On page 4, lines 6-7, cancel "- claim 7".
On page 4, line 7, cancel "This means that" and substitute therefor --
Accordingly,--.
On page 4, line 11, insert --present-- before "invention".

On page 4, line 14, cancel “- claim 8”.

On page 4, cancel lines 21-23 and substitute the following therefor:

--Additional features and advantages of the present invention are described in, and will be apparent from, the following Detailed Description of the Preferred Embodiments and the Drawings.

DESCRIPTION OF THE DRAWINGS--.

On page 4, line 27, insert --present-- before “invention”.

On page 4, line 27, cancel the “,” and substitute therefor a --;--.

On page 4, cancel line 29.

10 On page 4, line 30, cancel “Figure 2b” and substitute therefor --Figures 2a and 2b--.

On page 4, before line 36, insert the following centered heading:

--DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS--.

On page 4, line 38, cancel the “-“ and substitute therefor a --;--.

15 On page 5, line 5, cancel the “-“ and substitute therefor a --;--.

On page 5, line 19, cancel the “-“ and substitute therefor a --;--.

On page 5, line 24, cancel the “-“ and substitute therefor a --,-- (occurs twice).

20 On page 5, line 39, cancel “This means that” and substitute therefor --As such,--.

On page 6, line 20, insert --present-- before “invention”.

On page 6, line 22, cancel the “-“ and substitute therefor a --;--.

On page 6, line 24, cancel the “-“ and substitute therefor a --;--.

25 On page 6, line 26, cancel “This means that” and substitute therefor --As such--.

On page 7, line 8, cancel the “-“ and substitute therefor a --,--.

On page 7, line 20, cancel the “-“ and substitute therefor --, which is--.

On page 7, line 21, cancel the “-“ and substitute therefor a --,--.

On page 7, line 31, insert --present-- before “invention”.

On page 7, line 33, cancel "comprising" and substitute therefor --including-

On page 8, after line 1, insert the following paragraph:

5 --Although the present invention has been described with reference to specific embodiments, those of skill in the art will recognize that changes may be made thereto without departing from the spirit and scope of the invention as set forth in the hereafter appended claims.--

On page 11 (last page), cancel all lines of text and substitute the following therefor:

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--ABSTRACT OF THE DISCLOSURE

A method for transmitting packet-oriented information via a time division multiplex oriented radio link, wherein, in the downstream direction of transmission, the transmission channels are permanently allocated to all communication terminals. The packet-oriented information to be transmitted is
15 inserted into frame-relay-oriented transmission packets, including a destination address and broadcast to all communication terminals via the permanently allocated transmission channels. The transmission packets broadcast are received by the communication terminals having the allocated destination addresses and are forwarded.--

20 **In the Claims:**

On page 9, cancel line 1, and substitute the following left-hand justified heading therefor:

--I Claim As My Invention:--

25 Please cancel claims 1-8 without prejudice, and substitute the following claim therefor:

9. A method for transmitting packet-oriented information between a central facility and communication terminals via a feedback network, at least one radio link including transmission channels implemented in accordance with a TDMA

access method being arranged in a communication terminal area in the feeder network, the method comprising the steps of:

permanently allocating, in a downstream direction of transmission, at least some of the transmission channels to all communication terminals;

- 5 inserting the packet-oriented information to be transmitted for the respective communication terminals into transmission packets using a packet-oriented transmission protocol;

inserting a respective destination address into the transmission packets for the respective communication terminals;

- 10 broadcasting the transmission packets to all the communication terminals via the permanently allocated transmission channels; and

receiving the transmission packets by the communication terminals having the associated destination addresses, and then forwarding the transmission packets.

- 15 10. A method for transmitting packet-oriented information between a central facility and communication terminals via a feeder network as claimed in claim 9, wherein the transmission protocol is implemented via a frame relay transmission method.

- 20 11. A method for transmitting packet-oriented information between a central facility and communication terminals via a feeder network as claimed in claim 9, wherein the destination addresses correspond to the communication network addresses provided for the communication terminals.

- 25 12. A method for transmitting packet-oriented information between a central facility and communication terminals via a feeder network as claimed in claim 9, wherein a protocol-oriented destination address is allocated to each communication terminal, the protocol-oriented destination addresses being derived

from the communication-network-specific destination addresses and being inserted into the respective transmission packets.

13. A method for transmitting packet-oriented information between
5 a central facility and communication terminals via a feeder network as claimed in claim 9, wherein, in an upstream direction of transmission, one of a DECT and a CDMA access method is provided, the transmission channels being allocated one of individually for each connection, by a token-oriented method, by a TDMA-oriented method, by a collision-controlled method, and a time-table-controlled method.

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14. A method for transmitting packet-oriented information between
a central facility and communication terminals via a feeder network as claimed in claim 9, wherein a sum of the transmission packets broadcast over at least some of the downstream transmission channels per unit time is equal to a sum of all
15 transmission packets transmitted over a frame relay transmission path per unit time.

15. A method for transmitting packet-oriented information between
a central facility and communication terminals via a feeder network as claimed in claim 9, wherein a logical connection is permanently set up from the communication
20 terminal to the central facility.

16. A method for transmitting packet-oriented information between
a central facility and communication terminals via a feeder network as claimed in claim 15, wherein a number of transmission packets which can be transmitted per
25 unit time is variable for each logical connection.

REMARKS

The present amendment makes editorial changes and corrects typographical errors in the specification in order to conform the specification to the requirements of the United States Patent practice. No new matter is added thereby. Original

claims 1-8 have been canceled in favor of new claims 9-16. Claims 9-16 have been presented solely because the revisions by bracketing and underlining which would have been necessary in claims 1-8 in order to present the claims in accordance with preferred United States Patent practice would have been too extensive, and thus would have been too burdensome. The amendment is intended for clarification purposes only and not for substantial reasons related to patentability pursuant to 35 U.S.C. §§101, 102, 103 or 112. Indeed, the cancellation of claims 1-8 does not constitute an intent on the part of the Applicant to surrender any of the subject matter of claims 1-8.

Early consideration on the merits is respectfully requested.

Respectfully submitted,



William E. Vaughan
Bell, Boyd & Lloyd LLC
P.O. Box 1135
Chicago, Illinois 60690-1135
(312) 807-4292
Attorneys for Applicant

(Reg. No. 39,056)